

CLAIMS

1. A recombinant or isolated nucleic acid molecule encoding at least a biologically functional part of a mammalian protein capable of binding to a p53 protein and comprising at least a part of the sequence

5	1	GTGGCTCTTG	CGAACTCTGG	GTGGAGAGG	CCGGAACTGG	TGCTGCCGTT
	51	GCTCGCAGTT	TCAAAATGCA	GTGCAGGCCT	TAGGGTCTCC	GGCTGCCACC
10	101	CCTCCCCCAG	CTAGGAGGGGG	GAGCGACTCA	TGGAGCGGGCC	GTAAGTTGC
	151	TAACTGTGGA	GTCTTCAGT	CCAAAATGAC	ATCACATTCC	ACCTCGGCC
15	201	AGTGGTCAGC	ATCTGACAGT	GCTTGAGAA	TTTCTTCGGA	ACAAATTAGT
	251	CAGGTGCGGC	CAAAACTGCA	GCTTTGAAG	ATTTTGCATG	CAGCAGGTGC
	301	GCAGGGGGAA	GTATTCAAC	TGAAAGAGGT	AATGCACTAT	CTAGGCCAGT
	351	ATATAATGGT	GAAGCAGCTC	TATGATCAAC	AGGAGCAACA	TATGGTATAC
	401	TGTGGTGGAG	ATCTTTGGG	AGATCTACTT	GGATGTCAGA	GCTTTCTGT
20	451	GAAAGATCCA	AGCCCTCTCT	ATGACATGCT	AAGAAAAGAT	CTTGTACAT
	501	CAGCTTCTAA	TAACACAGAT	GCTGCTCAGA	CTCTCGCTCT	CGCACAGGAT
	551	CACACTATGG	ATTTTCCAAG	TCAAGACCGA	CTGAAGCACG	GTGCAACAGA
	601	ATACTCCAAT	CCCAGAAAAA	GAACGTGAAGA	AGAGGATACT	CACACACTGC
	651	CTACCTCACG	ACATAAATGC	AGAGACTCCA	GAGCAGATGA	AGACTTGATA
25	701	GAACATTTAT	CTCAAGATGA	GACATCTAGG	CTTGACCTTG	ATTTTGAGGA
	751	GTGGGACGTT	GCTGCCCTGC	CTTGGTGGTT	TCTAGGGAAT	TTGAGAAACA
	801	ACTGTATTCC	TAAAAGTAAT	GGCTCAACTG	ATTTACAGAC	AAATCAGGAT
	851	ATAGGTACTG	CCATTGTTTC	AGACACTACG	GATGATTGT	GGTTTTTAAA
	901	TGAGACCGTG	TCAGAGCAAT	TAGGTGTTGG	AATAAAAGTT	GAAGCTGCTA
30	951	ATTCTGAGCA	AACAAGTGA	GTAGGGAAAA	CAAGTAACAA	GAAGACGGTG
	1001	GAGGTGGGAA	AGGATGATGA	TCTTGAGGAC	TCCAGGTCT	TGAGCGATGA
	1051	TACTGACGTG	GAACCTACCT	CTGAGGATGA	GTGGCAGTGT	ACGGAATGCA
	1101	AGAACGTTAA	TTCTCCAAGC	AAGAGGTACT	GTTTTCGTTG	CTGGGCCTTG
	1151	AGAAAAGGATT	GGTATTGCGA	TTGTTCTAAA	TTAACTCATT	CCCTATCTAC
35	1201	ATCTAATATT	ACTGCCATAC	CTGAAAAGAA	GGACAATGAA	GGAATTGATG
	1251	TTCCCGATTG	TAGGAGAAC	ATTTCAGCTC	CTGTTGTTAG	GCCTAAAGAT
	1301	GGATATTAA	AGGAGGAAAA	GCCCAGGTTT	GACCCCTGCA	ACTCAGTGGG
	1351	ATTTTTGGAT	TTGGCTCATA	GTTCCTGAAAG	CCAGGAGATC	ATCTCAAGCG
	1401	CGAGAGAAC	AACAGATATT	TTTTCTGAGC	AGAAAAGCTGA	AACAGAAAAGT
40	1451	ATGGAAGATT	TCCAGAAATGT	CTTGAAGCCG	TGTAGCTTAT	GTGAAAAAAAG
	1501	GCCTCGGGAT	GGGAACATTA	TTCATGGGAA	GACGAGCCAT	CTGACGACAT
	1551	GTTCCTACTG	TGCCAGGAGA	CTGAAGAACT	CTGGGGCTTC	GTGTCCTGTT
	1601	TGTAAGAAAG	AGATTCAGTT	GGTTATTAAA	GTGTTTATAG	CATAGTTGAG
	1651	TCAGTCACAG	AGAAATACTA	GGAGGACCAG	GTCATTTATC	AAAAAAA
40	1701	A				

or a functional equivalent thereof.

2. A nucleic acid molecule according to claim 1 which is a cDNA.

3. A nucleic acid molecule according to claim 1 or 2, encoding at least a functional part of the human equivalent of the sequence of claim 1.

4. A recombinant vector comprising a nucleic acid molecule according to claims 1-3 together with suitable elements for regulation of replication and/or expression.

5. A recombinant host cell comprising a vector or a nucleic acid molecule according to anyone of the foregoing claims.

6. An isolated or recombinant proteinaceous substance comprising at least a biologically functional part of an amino acid sequence resulting from the translation of a nucleic acid molecule according to any one of claims 1-3, the expression of a vector according to claim 4 and/or the culture of a cell according to claim 5.

10 7. A method for the identification of proteins having a binding affinity for p53 comprising the steps of labelling a proteinaceous substance comprising at least the binding site of a p53 protein and hybridizing said substance with the protein to be tested.

15 8. A method for the identification of nucleic acid molecules encoding proteins having a binding affinity for a p53 protein comprising the steps of expressing said nucleic acid in a suitable expression system, labelling a proteinaceous substance comprising at least the binding site of a p53 protein and hybridizing said substance with the protein to be tested.

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